Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-10 (Cancelled)

- 11. (Currently amended) An x-y addressable image sensor comprising:
- (a) a plurality of light receiving elements arranged in an array of rows and columns that convert the light to a signal;
- (b) means for reading out two or more <u>equivalent</u> samples of a same signal from each light receiving element in at least one row, <u>wherein the same signal is produced after a single integration period for all of the light receiving elements in the at least one row;</u>
- (c) at least two signal storage banks comprised of individual signal storage elements; each of the at least two storage banks having enough individual storage elements to store the two or more signals from the at least one row of light receiving elements in the array, wherein the two or more samples of the same signal are concurrently stored in different individual signal storage elements; and
- (d) at least two select mechanisms which can direct signals from the plurality of light receiving elements to any single or combination of the signal storage banks.
- 12. (Previously presented) The image sensor as in claim 11 further comprising a plurality of color filters mated with the plurality of light receiving elements, and the select mechanism is used to send signals from the light receiving elements mated to a single color filter type to a desired signal storage bank such that, for any given row, a single signal storage bank contains signals from a single color type.
- 13. (Previously presented) The image sensor as in claim 12 wherein the color filter is a Bayer pattern in which signals from a single color type are sent to only one of the two signal storage banks.

- 14. (Original) The image sensor as in claim 13, wherein the single color type sent to only one of the storage regions is green.
- 15. (Original) The image sensor as in claim 11, wherein the individual signal storage elements in the signal storage banks are larger than light measuring element pitch.
- 16. (Previously presented) The image sensor as in claim 11, wherein the at least two select mechanisms direct signals from the each of the plurality of light receiving elements to both signal storage banks.
- 17. (Original) The image sensor as in claim 11 further comprising a plurality of signal storage banks and the at least two select mechanisms direct signals to multiple signal storage banks.
- 18. (Original) The image sensor as in claim 11, wherein a single pixel can be directed to multiple single storage elements within any signal storage bank.
- 19. (Previously presented) The image sensor of claim 18, wherein adjacent signals from the light receiving elements in the adjacent signal storage elements are averaged to produce a single value.
- 20. (Original) The image sensor as in claim 11, wherein a single pixel can be directed to adjacent individual signal storage elements within any signal storage bank.
- 21. (Previously presented) The image sensor of claim 20, wherein adjacent signals from the light receiving elements in the adjacent signal storage elements are averaged to produce a single value.

Claims 22-25 (Cancelled)

- 26. (Currently amended) A camera comprising: an x-y addressable image sensor comprising:
- (a) a plurality of light receiving elements arranged in an array of rows and columns that convert the light to a signal;
- (b) means for reading out two or more <u>equivalent</u> samples of a same signal from each light receiving element in at least one row, <u>wherein the same signal is produced after a single integration period for all of the light receiving elements in the at least one row:</u>
- (c) at least two signal storage banks comprised of individual signal storage elements; each of the at least two storage banks having enough individual storage elements to store the two or more signals from the at least one row of light receiving elements in the array, wherein the two or more samples of the same signal are concurrently stored in different individual signal storage elements; and
- (d) at least two select mechanisms which can direct signals from the plurality of light receiving elements to any single or combination of the signal storage banks.
- 27. (Previously presented) The camera as in claim 26 further comprising a plurality of color filters mated with the plurality of light receiving elements, and the select mechanism is used to send signals from the light receiving elements mated to a single color filter type to a desired signal storage bank such that, for any given row, a single signal storage bank contains signals from a single color type.
- 28. (Previously presented) The camera as in claim 27 wherein the color filter is a Bayer pattern in which signals from a single color type are sent to only one of the two signal storage banks.
- 29. (Original) The camera as in claim 28, wherein the single color type sent to only one of the storage regions is green.

- 30. (Original) The camera as in claim 26, wherein the individual signal storage elements in the signal storage banks are larger than light measuring element pitch.
- 31. (Previously presented) The camera as in claim 26, wherein the at least two select mechanisms direct signals from the each of the plurality of light receiving elements to both signal storage banks.
- 32. (Original) The camera as in claim 26 further comprising a plurality of signal storage banks and the at least two select mechanisms direct signals to multiple signal storage banks.
- 33. (Original) The camera as in claim 26, wherein a single pixel can be directed to multiple single storage elements within any signal storage bank.
- 34. (Previously presented) The camera as in claim 33, wherein adjacent signals from the light receiving elements in the adjacent signal storage elements are averaged to produce a single value.
- 35. (Original) The camera as in claim 26, wherein a single pixel can be directed to adjacent individual signal storage elements within any signal storage bank.
- 36. (Previously presented) The camera as in claim 35, wherein adjacent signals from the light receiving elements in the adjacent signal storage elements are averaged to produce a single value.

Claims 37-40 (Cancelled)

41. (Currently amended) A method for operating an x-y addressable image sensor that includes at least two storage banks comprised of individual storage elements each of the at least two storage banks elements having

enough individual storage elements to store signals from at least one row of light receiving elements, the method comprising:

capturing a single image <u>using a single integration period for all of</u> the light receiving elements in at least one row;

after the single integration period, reading out two or more equivalent samples of the same signal for each light receiving element in the at least one row;

storing the two or more samples of the same signal in respective storage elements in the at least two storage banks.

42. (Previously presented) The method as in claim 41, further comprising:

for each light receiving element in the at least one row, reading out the two or more samples of the same signal from the respective storage elements; and

averaging the two or more samples to generate a single average signal.